

Docket No. 2002-061R
PATENT

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 7-22-05

BY: Suzanne Shadley

Suzanne Shadley

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Chang et. al	Confirmation No.	4543
Serial No.:	10/689,775	Group Art Unit:	1713
Filed:	10/20/03	Examiner:	W. Cheung
For:	Olefin-Hydrophilic Block Copolymers of Controlled Sizes and Methods of Making and Using the Same		

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Sir:

Transmitted herewith (check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> Preliminary Amendment | <input checked="" type="checkbox"/> Information Disclosure Statement |
| <input type="checkbox"/> Response/Amendment A | <input type="checkbox"/> Petition Under 37 CFR 1.97(d)(2) |
| <input type="checkbox"/> Response/Amendment After Final | <input type="checkbox"/> Formal Drawings |
| <input type="checkbox"/> Supplemental Amendment | <input type="checkbox"/> Declaration Under 37 CFR 1.131 |
| <input type="checkbox"/> Affidavits/Declarations | <input type="checkbox"/> Declaration Under 37 CFR 1.132 |
| <input type="checkbox"/> Declaration and Power of Attorney | <input type="checkbox"/> Terminal Disclaimer |
| <input type="checkbox"/> Supplemental Declaration | <input type="checkbox"/> Small Entity Statement |
| <input type="checkbox"/> Power of Attorney | <input type="checkbox"/> Request for Refund |
| <input type="checkbox"/> Change of Correspondence Address | <input type="checkbox"/> Appeal |
| <input type="checkbox"/> Associate Power of Attorney | <input type="checkbox"/> Petition to Correct Inventorship |
| <input type="checkbox"/> Response to Missing Parts | <input type="checkbox"/> Issue Fee Transmittal |

to be filed in the above-identified patent application.

TOTAL AMOUNT OF PAYMENT: \$ 180.00
METHOD OF PAYMENT

The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 50-0496

Deposit Account Name: Symyx Technologies, Inc.

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Charge the Issue Fee Set it 37 CFR 1.18 at the Mailing of the Notice of Allowance

FEE CALCULATION

1.EXTRA CLAIM FEES

			Extra Claims		Fee from below		Fee Paid
Total Claims		-20**	=		X	=	
Independent Claims		-3**	=		X	=	
Multiple Dependent Claims (first appearance) \$360/180							

**or number previously paid, if greater; For Reissues, see below

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
1202	50	2202	25	Claims in excess of 20
1201	200	2201	100	Independent claims in excess of 3
1203	360	2203	180	Multiple dependent claim, if not paid
1204	200	2204	100	**Reissue independent claims over original patent
1205	50	2205	25	**Reissue claims in excess of 20 and over original patent
				SUBTOTAL (2) (\$)

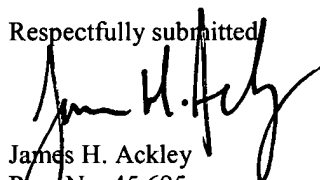
2. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge – late filing fee or oath	
1052	50	2052	25	Surcharge – late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	120	2251	60	Extension for reply within first month	
1252	450	2252	225	Extension for reply within second month	
1253	1,020	2253	510	Extension for reply within third month	
1254	1,590	2254	795	Extension for reply within fourth month	
1255	2,160	2255	1,080	Extension for reply within fifth month	
1401	500	2401	250	Notice of Appeal	
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1,000	2403	500	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	500	2452	250	Petition to revive – unavoidable	
1453	1,500	2453	750	Petition to revive – unintentional	
1501	1,400	2501	700	Utility issue fee (or reissue)	
1502	800	2502	400	Design issue fee	
1503	1,100	2503	550	Plant issue fee	
1462	400	1462	400	Petitions to the Director not specifically provided for (Group I)	
1807	50	1807	50	Petitions related to provisional applications	
1806	180	1806	180	Submission of Information Disclosure Statement	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))	
Other fee (specify) Publication Fee 1.18(d)					
SUBTOTAL (3)					(\$)
					180.00

*Reduced by Basic Filing Fee Paid

Date: 7-22-05

Respectfully submitted



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Attorney Docket No. 2002-061R1
PATENT

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Confirmation No. 4543
Group Art Unit: 1713
Examiner: W. Cheung

Santa Clara, California
July 22, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450


INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant requests that the references cited herein be considered in connection with the examination of this application and listed on the front of any patent that issues. The references are listed on the attached modified PTO-1449 form. Copies of each reference listed on the PTO Form 1449 are enclosed except for copies of the U.S. patent documents which are not supplied in accordance with the OG notice of August 5, 2003, partially waiving the requirements of 37 C.F.R. §1.98(a)(2)(i).

This is being filed after the first office action, and thus the applicant is paying the fee required by 37 CFR § 1.17(p) in the accompanying transmittal letter.

Respectfully submitted,



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INFORMATION DISCLOSURE CITATIONATTORNEY'S DOCKET NO.:
2002-061R1APPLICATION NO.:
10/689,775

PTO-1449

APPLICANT:
Chang et al.FILE DATE:
October 20, 2003GROUP:
1713**US PATENT DOCUMENTS**

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,153,705	28-NOV-00	Corpart et al.	525	244	23-JUN-98
	6,380,335	30-APR-02	Charmot et al.	526	220	28-SEP-00
	3,580,830	25-MAY-71	Siebert et al.	204	159.24	05-SEP-68
	5,089,601	18-FEB-92	Ozoe et al.	528	390	07-SEP-90
	5,314,962	24-MAY-94	Otsu et al.	525	280	29-JUN-93
	5,356,947	18-OCT-94	Ali et al.	522	57	29-OCT-92
	6,518,448	11-FEB-03	Chang	333	00	25-SEP-01
	2003/0232938	18-DEC-03	Charmot	526	194	03-APR-03
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	2002/0061990	23-MAY-02	Charmot et al.	526	205	22-MAY-01
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	2004/0019163	29-JAN-04	Charmot et al.	526	198	03-APR-03
	6,395,850	28-MAY-02	Charmot et al.	526	220	22-MAY-01
	6,512,081	28-JAN-03	Rizzardo et al.	528	340	20-JUL-98
	6,518,364	11-FEB-03	Charmot et al.	525	259	25-SEP-01
	5,392,209	21-FEB-95	Eason et al.	364	413.01	18-DEC-92
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	5,700,892	23-DEC-97	Takiguchi et al.	526	306	24-FEB-97
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	4,260,659	07-APR-81	Gobran	428	217	18-JUN-79
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	4,483,978	20-NOV-84	Manser	528	408	18-MAY-82
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	4,554,324	19-NOV-85	Husman et al.	525	301	04-APR-85
	4,656,213	07-APR-87	Schlademan	524	272	26-OCT-84
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	4,778,852	18-OCT-88	Futamura	525	97	06-APR-87
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EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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	WO 02/38689	16-MAY-02	WO - PCT	C09D	123/00	
	GB 2 179 664	11-MAR-87	GB - United Kingdom	C08K	3/08	
	WO 02/36706	10-MAY-02	WO - PCT	C09J	153/00	Yes
	EP 0 629 689	21-DEC-94	EP - European Patent	C10M	169/06	
	WO 98/01478	15-JAN-98	WO - PCT	C08F	2/38	
	WO 99/35177	15-JUL-99	WO - PCT	C08F	293/00	Yes
	WO 99/31144	24-JUN-99	WO - PCT	C08F	2/38	
	WO 98/58974	30-DEC-98	WO - PCT	C08F	293/00	Yes
	WO 99/51980	14-OCT-99	WO - PCT	G01N	30/02	
	WO 01/93998	13-DEC-01	WO - PCT	B01J		
	WO 99/05099	04-FEB-99	WO - PCT	C07C	327/36	
	WO 02/090397	14-NOV-02	WO - PCT	C08F	8/00	Yes
	WO 02/28932	11-APR-02	WO - PCT	C08F	293/00	
	WO 99/33003	01-JUL-99	WO - PCT	G06F	17/30	
	EP 0 349 232	03-JAN-90	EP - European Patent	C08F	293/00	
	EP 0 421 149	10-APR-91	EP - European Patent	C08F	36/18	
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	WO 00/68275	16-NOV-00	WO - PCT	C08F	4/04	
	WO 99/05184	02-FEB-99	WO - PCT	C08F	8/00	
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	FR 2 764 892	24-DEC-98	FR - France	C08F	293/00	

OTHER DOCUMENTS (including Author, Date, Pertinent Pages, Title, Etc.)

EXAMINER'S INITIALS	DOCUMENT
	<p><i>Author:</i> Otsu et al. <i>Publish Date:</i> <i>Publish Year:</i>1998 <i>Volume:</i> 136 <i>Pages:</i> 75-137</p> <p><i>Journal:</i> Advances In Polymer Science</p> <p><i>Title:</i> Controlled Synthesis Of Polymer Using The Iniferter Technique: Developments In Living Radical Polymerization</p>
	<p><i>Author:</i> Castro et al. <i>Publish Date:</i> <i>Publish Year:</i>1984 <i>Volume:</i> 49 <i>Pages:</i> 863-866</p> <p><i>Journal:</i> J. Org. Chem.</p> <p><i>Title:</i> Kinetics And Mechanism Of The Addition Of Amines To Carbon Disulfide In Ethanol</p>
	<p><i>Author:</i> Monteiro et al. <i>Publish Date:</i> <i>Publish Year:</i>2000 <i>Volume:</i> 38 <i>Pages:</i> 3864-3874</p> <p><i>Journal:</i> Journal Of Polymer Science</p> <p><i>Title:</i> The Influence Of RAFT On The Rates And Molecular Weight Distribution Of Styrene In Seed Emulsion Polymerizations</p>
	<p><i>Author:</i> Monteiro et al. <i>Publish Date:</i> <i>Publish Year:</i>2000 <i>Volume:</i> 38 <i>Pages:</i> 4206-4217</p> <p><i>Journal:</i> Journal Of Polymer Science</p> <p><i>Title:</i> Synthesis Of Butyl Acrylate-Styrene Block Copolymers In Emulsion By Reversible Addition-Fragmentation Chain Transfer: Effect Of Surfactant Migration Upon Film Formation</p>
	<p><i>Author:</i> Charmot et al. <i>Publish Date:</i> <i>Publish Year:</i>2000 <i>Volume:</i> 150 <i>Pages:</i> 23-32</p> <p><i>Journal:</i> Macromolecular Symposia</p> <p><i>Title:</i> Controlled Radical Polymerization In Dispersed Media</p>

	Author: Houben-Weyl Publish Date: Publish Year:1961 Volume: XIV/1 Pages: 192-208 Journal: Book Title: Methoden Der Organischen Chemie
	Author: Houben-Weyl Publish Date: Publish Year:1961 Volume: XIV/1 Pages: 411-420 Journal: Book Title: Methoden Der Organischen Chemie
	Author: Brandrup et al. Publish Date: Publish Year:1989 Volume: Pages: Vii-380, 385,386,403 Journal: Polymer Handbook 3rd Ed. Title: No Title
	Author: Lambert et al. Publish Date:01-OCT-00 Publish Year: Volume: 161 Pages: 97-102 Journal: Macromolecular Symposia Title: Synthesis Of Three-Arm Star Block Copolymers
	Author: Burguiere, C. et al. Publish Date: Publish Year:2000 Volume: 150 Pages: 39-44 Journal: Macromolecular Symposia Title: Amphiphilic Block Copolymers Prepared Via Controlled Radical Polymerization As Surfactants For Emulsion Polymerization
	Author: Hawker et al. Publish Date: Publish Year:1999 Volume: 121 Pages: 3904-3920 Journal: J. Am. Chem. Soc. Title: Development of a Universal Alkoxyamine For "Living" Free Radical Polymerizations
	Author: Russell et al. Publish Date: Publish Year:1989 Volume: 22 Pages: 4600-4606 Journal: Macromolecules Title: Characteristics Of The Surface-Induced Orientation For Symmetric Diblocks PS/PMMA Copolymers
	Author: Hansch et al. Publish Date: Publish Year:1995 Volume: Pages: Journal: ACS Professional Reference Book 1995 Title: Exploring QSAR Hydrophobic, Electronic, And Steric Constants
	Author: Coulon et al. Publish Date: Publish Year:1990 Volume: 51 Pages: 777-786 Journal: J. Phys. France Title: Interference Microscopy On Thin Diblock Copolymer Films
	Author: Moad et al. Publish Date: Publish Year:1995 Volume: 1st Ed. Pages: 176-183 Journal: Pergamon Press Title: The Chemistry of Free Radical Polymerization
	Author: Lide Publish Date: Publish Year:1995 Volume: Pages: Journal: CRC Press Title: CRC Handbook of Chemistry and Physics
	Author: Corkan et al. Publish Date: Publish Year:1992 Volume: 17 Pages: 47-74 Journal: Chemometrics and Intelligent Lab. Sys. Title: Experiment Manager Software for an Automated Chemistry Workstation, Including a Scheduler for Parallel Experimentation
	Author: Thayer Publish Date: Publish Year:2000 Volume: 78(6) Pages: 19-32 Journal: Business Title: Bioinformatics For The Masses
	Author: McFarland Publish Date: Publish Year:1998 Volume: 13.3 Pages: 107-120 Journal: Matrice Technologies Ltd. Title: Approaches For Rapid Materials Discovery Using Combinatorial Methods
	Author: Cargill et al. Publish Date: Publish Year:1996 Volume: 8 Pages: 139-148 Journal: LRA Title: Automated Combinatorial Chemistry on Solid Phase
	Author: Grigoriadis et al. Publish Date: Publish Year:1997 Volume: April Pages: 53-54 Journal: Application Note Title: A Relational System for Managing High-Throughput Screening Data
	Author: Network Science Publish Date:15-NOV-02 Publish Year:2002 Volume: Pages: Journal: Website Title: Introducing MDL Screen (www.netsci.org/Science/Screening/feature03.html)
	Author: MDL Information Syst Publish Date: Publish Year:1998 Volume: Pages: Journal: Brochure Title: MDL Screen 1.3 Closes Final Gap in HTS Workflow
	Author: Afferent Systems Inc Publish Date:28-JAN-99 Publish Year:1999 Volume: Pages: 1 page Journal: Website Title: Afferent Analytical
	Author: Afferent Systems Inc Publish Date:03-JUL-99 Publish Year:1999 Volume: Pages: Journal: Website Title: What's New? IRORI and Afferent Enter Into Combinatorial Chemistry Collaboration Agreement
	Author: Chaumont et al. Publish Date: Publish Year:1998 Volume: 685 Pages: 362-376 Journal: ACS Symp. Ser. Title: Free-Radical Synthesis of Functional Polymers Involving Addition-Fragmentation Reactions

	<p>Author: Colombani et al. Publish Date: Publish Year:1996 Volume: 21 Pages: 439-503 Journal: Prog. Polym. Sci. Title: Addition-Fragmentation Processes in Free Radical Polymerization</p>
	<p>Author: Colombani et al. Publish Date: Publish Year:1994 Volume: 32 Pages: 2687-2697 Journal: J. Polymer Sci. Title: Chain Transfer by Addition-Substitution-Fragmentation Mechanism. I. End-Functional Polymers by a Single-Step Free Radical Transfer Reaction: Use of a New Allylic Linear Peroxyketal</p>
	<p>Author: Jiang et al. Publish Date: Publish Year:1995 Volume: 196 Pages: 2349-2360 Journal: Macromol. Chem. Phys. Title: New Chain Transfer Agents for Radical Polymerization Based on the Addition-Fragmentation Mechanism</p>
	<p>Author: Meijs et al. Publish Date: Publish Year:1988 Volume: 9 Pages: 547-551 Journal: Makromolekulare Chemie, Rapid Communications Title: Chain Transfer by an Addition-Fragmentation Mechanism - the Use of Alpha-Benzoyloxystyrene for the Preparation of Low-Molecular-Weight Poly(Methyl Methacrylate) and Polystyrene</p>
	<p>Author: Meijs et al. Publish Date: Publish Year:1988 Volume: 21 Pages: 3122-3124 Journal: Macromolecules Title: Preparation of Controlled-Molecular-Weight, Olefin-Terminated Polymers by Free Radical Methods. Chain Transfer Using Allylic Sulfides</p>
	<p>Author: Watanabe et al. Publish Date: Publish Year:1993 Volume: 7 Pages: 1089-1092 Journal: Chemistry Letters Title: Addition-Fragmentation Chain Transfer in Free Radical Styrene Polymerization in the Presence of 2,4-diphenyl-4-methyl-1-pentene</p>
	<p>Author: Gagosz Publish Date: Publish Year:1999 Volume: 12 Pages: 1978-1980 Journal: Synlett Title: Generation And Capture Of Iminyl Radicals From Ketoxime Xanthates</p>
	<p>Author: Sophiamma Publish Date: Publish Year:1997 Volume: 109(1) Pages: 49-59 Journal: Proceedings-India Academy of Sciences Title: Polystyrene-supported Hydroxamic Dithiocarbonic Anhydrides: A New Class of Acyl Transfer Reagents</p>
	<p>Author: Villemain Publish Date: 04-MAR-91 Publish Year:1991 Volume: 5 Pages: 176 Journal: Chemistry And Industry Title: Microwave Activation In Organic Synthesis: An Efficient One-Pot Synthesis Of Nitriles From Aldehydes</p>
	<p>Author: Bates et al. Publish Date: Publish Year:1997 Volume: 30 Pages: 3650-3657 Journal: Macromolecules Title: Phase Behavior of Isotactic Polypropylene-Poly(ethylene/ethylene) Random Copolymer Blends</p>
	<p>Author: Bugada et al. Publish Date: Publish Year:1992 Volume: 28 Pages: 219-227 Journal: Eur. Polym J. Title: Molecular Structure and Melting Behaviour of Ethylene-Vinyl Acetate Copolymers</p>
	<p>Author: Cheng et al. Publish Date: Publish Year:1988 Volume: 21 Pages: 3164-3170 Journal: Macromolecules Title: Characterization of Ethylene Copolymers with ¹H NMR Techniques and Reaction Probability Models</p>
	<p>Author: Gospodinova et al. Publish Date: Publish Year:1992 Volume: 28 Pages: 961-967 Journal: Eur. Polym J. Title: Microstructure of Ethylene-(Vinyl Acetate) Copolymers Prepared by Emulsion Copolymerization</p>
	<p>Author: Keating et al. Publish Date: Publish Year:1996 Volume: 284 Pages: 47-56 Journal: Thermochimica Acta Title: Thermal Fractionation of Ethylene Polymers in Packaging Applications</p>
	<p>Author: Keating et al. Publish Date: Publish Year:1994 Volume: 243 Pages: 129-145 Journal: Thermochimica Acta Title: Evaluation of the Comonomer Distribution in Ethylene Copolymers Using DSC Fractionation</p>
	<p>Author: Ketels et al. Publish Date: Publish Year:1988 Volume: 21 Pages: 2032-2037 Journal: Macromolecules Title: Tacticity, Sequence Distribution, Anomalous Linkages, and Alkyl Chain Branching in Ethylene-Vinyl Alcohol Copolymers as Studied by H and C NMR</p>
	<p>Author: Otsu et al. Publish Date: Publish Year:1982 Volume: 3 Pages: 127-132 Journal: Makromolekulare Chemie, Rapid Communications Title: Role of Initiator-Transfer Agent-Terminator (Iniferter) in Radical Polymerizations: Polymer Design by Organic Disulfides as Iniferters</p>
	<p>Author: Pedemonte et al. Publish Date: Publish Year:1988 Volume: 19 Pages: 579-585 Journal: Polymer Bulletin Title: Morphology and Thermal Analysis of Poly(Ethylene-b-vinylacetate) Copolymers</p>
	<p>Author: Shimamura et al. Publish Date: Publish Year:2002 Volume: 13 Pages: 205-209 Journal: Polymers for Advanced Technologies Title: Poly(ethylene-block-vinylalcohol) Film with Amphiphilic Surface at High Temperature</p>
	<p>Author: Tart et al. Publish Date: Publish Year:1993 Volume: 26 Pages: 4283-4286 Journal: Macromolecules</p>

	<i>Title:</i> C NMR Spectroscopy as a Means to Probe the Local Microstructures and Conformations of Ethylene-Vinyl Acetate Copolymers
	<i>Author:</i> Beshah <i>Publish Date:</i> <i>Publish Year:</i> 1994 <i>Volume:</i> 86 <i>Pages:</i> 35-46 <i>Journal:</i> Macromolecular Symposia <i>Title:</i> Sequential Identification of Polymer Microstructures by Heteronuclear NMR Correlations
	<i>Author:</i> Rovida et al. <i>Publish Date:</i> <i>Publish Year:</i> 1986 <i>Volume:</i> 17 <i>Pages:</i> 192-195 <i>Journal:</i> Journ. Calorim., Anal. Therm. Thermodyn. Chim. <i>Title:</i> Thermal Analysis of Polymer Blends II. Poly (E-Caprolactam) - Poly(Ethylene-b-Vinylacetate) System
	<i>Author:</i> Brogly et al. <i>Publish Date:</i> 06-JUN-97 <i>Publish Year:</i> 1997 <i>Volume:</i> 64 <i>Pages:</i> 1903-1912 <i>Journal:</i> J. Applied Polymer Science <i>Title:</i> Effect of Vinylacetate Content on Crystallinity and Second-Order Transitions in Ethylene-Vinylacetate Copolymers
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	<i>Author:</i> Moad <i>Publish Date:</i> <i>Publish Year:</i> 1999 <i>Volume:</i> 24 <i>Pages:</i> 81-142 <i>Journal:</i> Prog. Polym. Sci. <i>Title:</i> The Synthesis Of Polyolefin Graft Copolymers By Reactive Extrusion
	<i>Author:</i> Matyjaszewski <i>Publish Date:</i> <i>Publish Year:</i> 2000 <i>Volume:</i> 768 <i>Pages:</i> <i>Journal:</i> ACS Symp. Ser. <i>Title:</i> Controlled/Living Radical Polymerization (book)
	<i>Author:</i> Allgaier et al. <i>Publish Date:</i> <i>Publish Year:</i> 1997 <i>Volume:</i> 30 <i>Pages:</i> 1582-1586 <i>Journal:</i> Macromolecules <i>Title:</i> Synthesis And Characterization of Poly[1,4-isoprene-b-(ethylene oxide)] And Poly[ethylene-co-propylene-b-(ethylene oxide)] Block Copolymers

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